

Insects from Bermuda Grass, Kawela Bay, Oahu, April 23, 1933

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(Presented at the meeting of May 4, 1933)

ORTHOPTERA

- Orya chinensis* (^{Thunb}~~Timb~~).—Nymphs were common.
Conocephalus saltator (Sauss.) Adults and nymphs common.

LEPIDOPTERA

Spodoptera mauritia (Boisd.).—Small and half grown caterpillars common, but not numerous enough to produce noticeable eating of the grass.

^{Haw}~~Asim~~ One caterpillar bore a cluster of larvae of *Euplectrus platyhyphenae* which later matured. Another caterpillar had a cluster of *Euplectrus* eggs, but it died and two larvae of *Frontina archippivora* Will. issued. Some of the caterpillars had the appearance of being parasitized by *Hypo-*
soter exiguae (Vier.) and an occasional cocoon of this parasite was seen.

DIPTERA

- 1 *Toxomerus marginatus* (Say).—A plump female of this syrphid fly was obtained. It is the second record of its occurrence on Oahu.

HEMIPTERA

- 3 *Oronomiris hawaiiensis* Kirk.—A grass-feeding bug.
 5 *Reduvius capsiformis* (Germ.).—Predacious on other smaller insects.
 1 *Stictocephala festina* (Say).
 4 *Phrynomorphus hospes* Kirk.—A grass-inhabiting cicadellid. Five small nymphs were obtained which were parasitized by dryinid larvae. No adult dryinids secured.
 10 *Bythoscopus robustus* (Uhler). *—2 from *Scaevola frutescens*. No nymphs. were found. The first record for the Hawaiian Islands.
Antonina indica Green.—Abundant. 8 females of its parasite, *Anagyrus antoninae* Timb., were obtained, as well as a few males.
Pseudococcus insularis Ehrhorn.—This mealybug must have been present, for 18 females of its parasite, *Anagyrus swezeyi* Timb., were obtained, and also some males.
Odonaspis ruthae Kotinsky.—Probably this scale was present, for 7 of its parasite, *Adelencyrtus odonaspidis* Full., were obtained.

* Identified by Mr. E. P. Van Duzee. Proc. Haw. Ent. Soc., VIII, No. 3, p. 381, 1934. [Ed.]

COLEOPTERA

- 1 adult scolytid and several larvae found in stems of the grass. These were found by examining an occasional freshly dead stem, and finding the tiny hole where the adult beetle had bored in, and the larvae were found inside.
- 1 *Scymnus notescens* (Blkb.).—Probably accidentally there, as it is an aphis-feeding ladybeetle.
- 1 *Bruchus amicus* Horn.—Probably just hiding—must have bred from pods of *Acacia farnesiana* as there were plants present.

HYMENOPTERA

Besides the parasites mentioned above, also the following:

- 1 *Pauridia peregrina* Timb.
- 4 Eulophids or elachistids.—Possibly new—yellow and green.
- Pheidole megacephala* (Fab.).—Numerous.
- Cardiocondyla wroughtonii hawaiiensis* Forel.—Common.